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4/23/02

PATENT  
Attorney Docket No. 07681.0018-01  
Customer No. 22,852

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Keith Campbell et al.

Serial No.: 09/989,128

Filed: November 21, 2001

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)  
) Group Art Unit: 1632

)  
) Examiner: D. Crouch

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For: UNACTIVATED OOCYTES AS CYTOPLAST  
RECIPIENTS FOR NUCLEAR TRANSFER

Assistant Commissioner for Patents  
Washington, DC 20231

Sir:

**AMENDMENT AND RESPONSE TO PAPER NO. 5**

In response to the Office Action dated February 26, 2002 (Paper No. 5),  
applicants submit the following amendment and remarks. Please amend this  
application as follows:

**IN THE CLAIMS:**

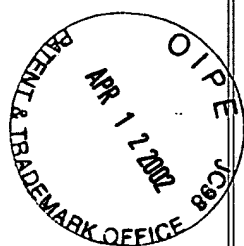
Please cancel claim 19 and add the following new claims:

-- 20. (New) A method of cloning a pig, comprising:

(i) inserting a nucleus of a differentiated pig cell, which is in the G1 phase of the  
cell cycle, into an unactivated, enucleated, metaphase II-arrested, pig oocyte, to  
reconstruct an embryo;

(ii) maintaining the reconstructed embryo without activation for a sufficient time to  
allow the reconstructed embryo to become capable of developing to term;

(iii) activating the resultant reconstructed embryo; and



FINNEGAN  
HENDERSON  
FARABOW  
GARRETT &  
DUNNER LLP

1300 I Street, NW  
Washington, DC 20005  
202.408.4000  
Fax 202.408.4400  
www.finnegan.com